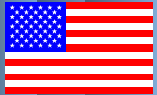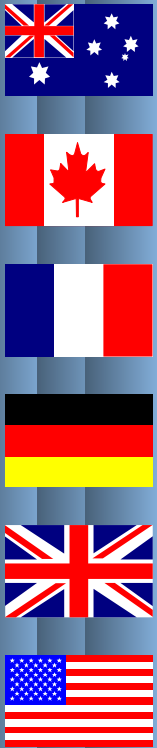# MIC GRIFFIN

COL Simon Shadbolt

Network MIWG Chairman, UK

Scope

- MIC GRIFFIN Principles

- Background

- Current CCEB GRIFFIN Status

- Strategy for MIC GRIFFIN

- Strategy for Improved Coalition Information Exchange Environment (CIEE)
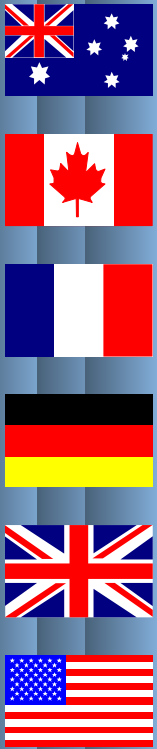
MIC GRIFFIN Principles

- As a permanent CWAN capability consisting of different Combined and Joint communities of interest

- Provides the exchange of classified information across all levels of command to deliver shared situational awareness and a common operating picture

- It is the "CWAN of Choice" to integrate duplicate and stovepipe networks into an open architecture utilizing existing National C2 systems across a common transport network – DISN

- Desktop-to-Desktop on national C2 Systems

- Griffin is sponsored by the MIC, enabled by the CCEB and implemented by the nations

GRIFFIN Background

- MIC 99 – Initial CWAN concept sent to CCEB
- MIC 00 –Network design, national security policy, testing and implementation development
- MIC 02 – Two phased approach approved
  - ➢ IOC for CCEB nations by Dec 02
  - ➢ Include FR and GE under initial development
- CCEB domain established Autumn 03
- Current Documentation:
  - ➢ MIC Multinational CWAN Conops
  - ➢ CCEB domain Business Case Report
  - ➢ MIC GRIFFIN Governance Document
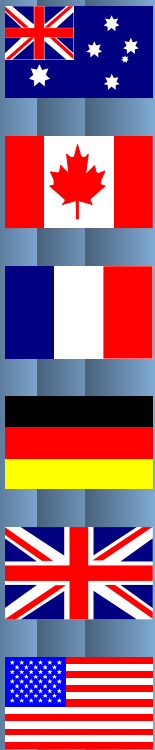 - ➢ CIEE strategy Paper

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Current Status

- **MIC Domain**

  ➢ DISN has been confirmed as Backbone
  ➢ Outcome of meeting GE/FR/UK in Dec 03.
 ➢ Full TF meeting in Mar 04

- **CCEB Domain**

  ➢ Established
  ➢ User community increasing
  ➢ Short-term enhancements
  ➢ Richer, Deeper & Wider
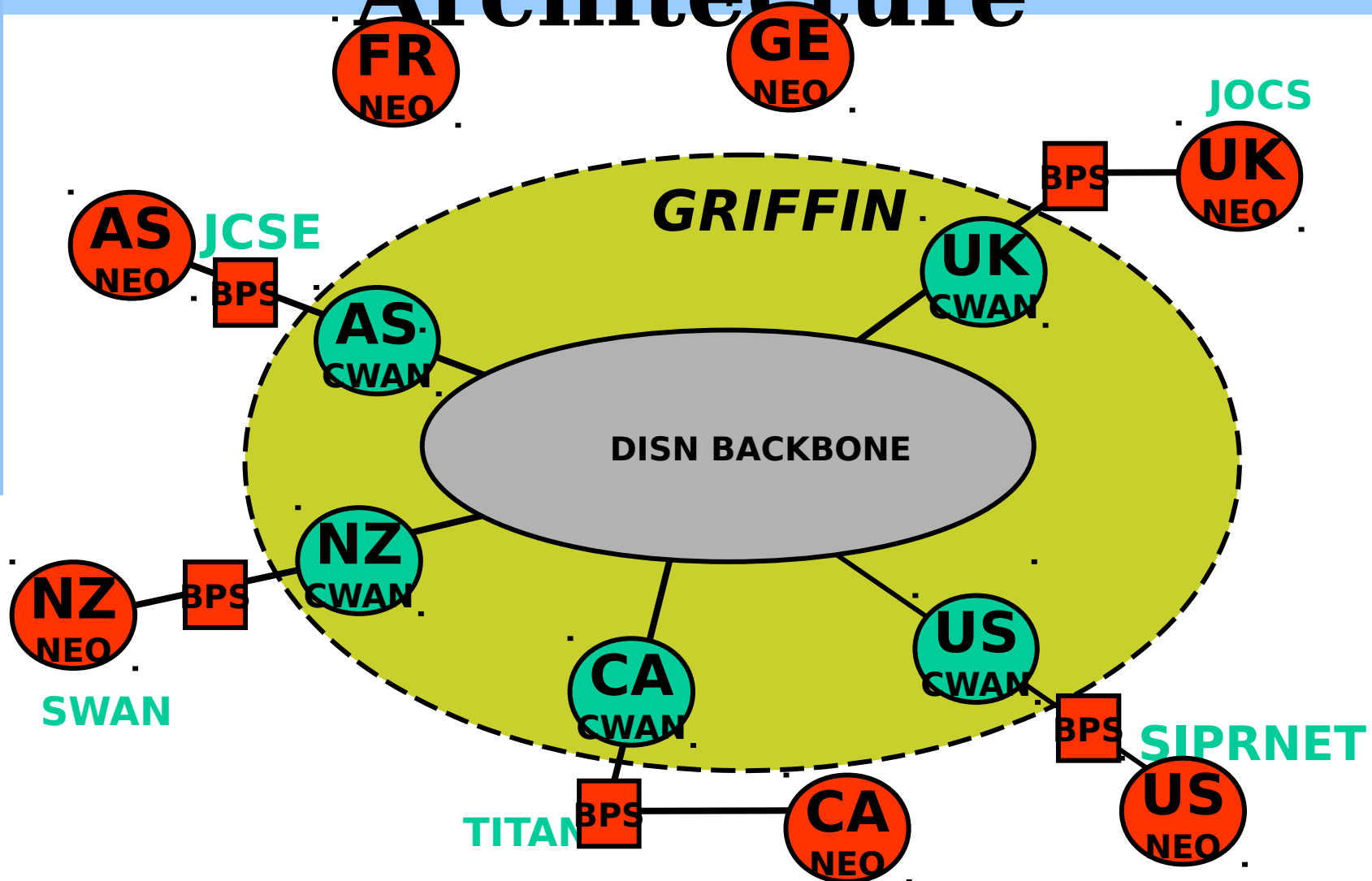
MIC GRIFFIN Meeting
Berlin Dec 2-3, 2003

- Prior to meeting, access to Taclanes, CFBLNet, CPO activities and connection of France's national network had yet to be determined
- Meeting hosted by Germany and co-chaired by France and UK, covered the following:

  ➢ TORs; CIEE Strategy Paper; Business Case; Governance Policy; MOU Status; CCEB documentation; Meeting schedule

- Very successful meeting which positively addressed the major issues in first bullet above
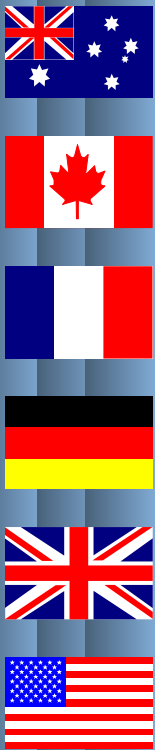
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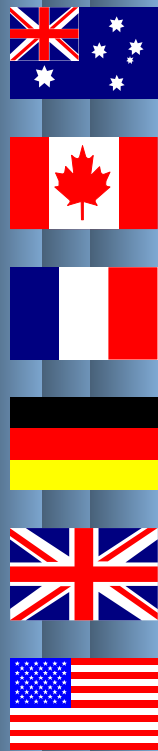
Meeting Outcomes

- TORs, Governance policy and Business case reviewed and amended
- US gave tacit agreement to use CPO for MIC GRIFFIN
- CCEB documentation to be made MIC releasable (SSPs SOPs)
- FR/GE to examine direct access to CFBLNet
- FR to Chair future mtgs
  - ➢ Next meeting in Mar 2004
- Chair to seek activation of MIC Infosec WG
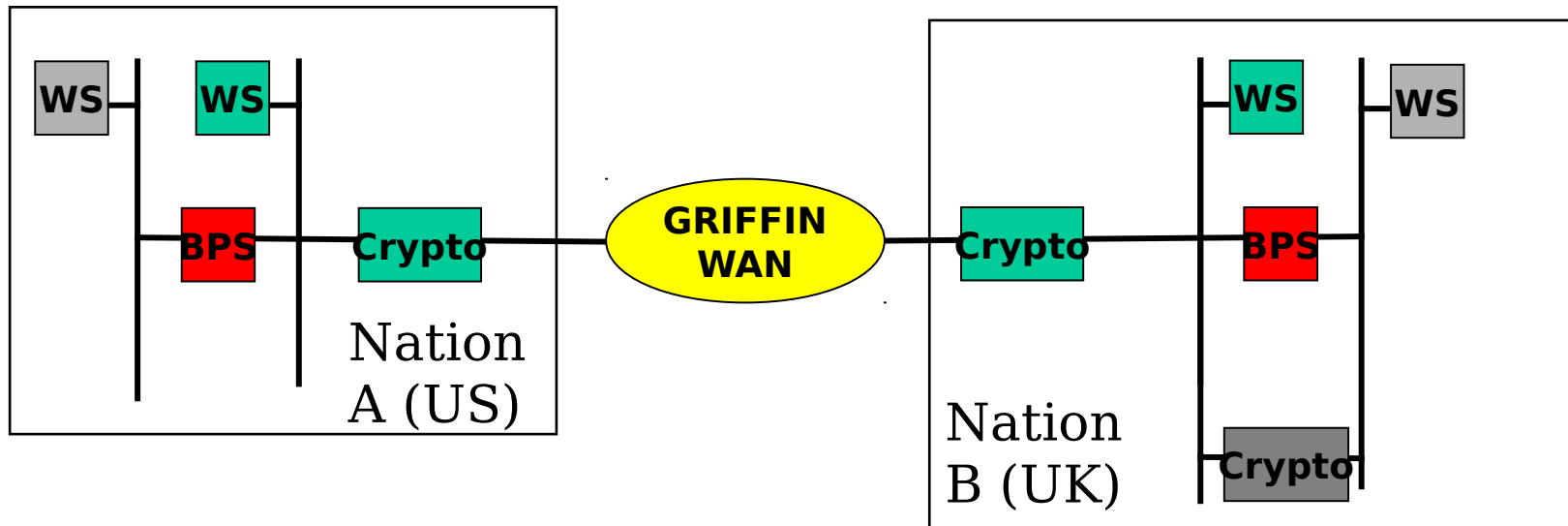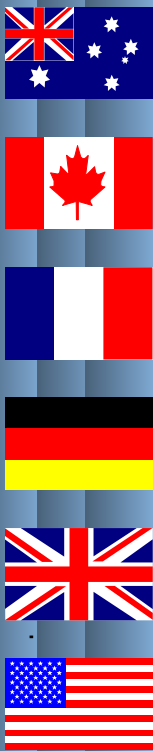
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Basic GRIFFIN Architecture

GRIFFIN

DISN BACKBONE

FR NEO
GE NEO
JOCS
UK NEO
BPS
AS NEO
JCSE
BPS
AS CWAN
UK CWAN
NZ CWAN
NZ NEO
BPS
SWAN
CA CWAN
US CWAN
US NEO
BPS
SIPRNET
CA NEO
TITAN
BPS

NEO - National Eyes Only Environment
BPS - Boundary Protection Service

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GRIFFIN

GRIFFIN + Reachback

Tier 1

WS **WS**

BPS **Crypto**

Nation A (US)

GRIFFIN WAN

Crypto **BPS**

WS **WS**

Nation B (UK)

Crypto

US SPACE

WS **WS**

NEO

WS **Crypto**

Crypto

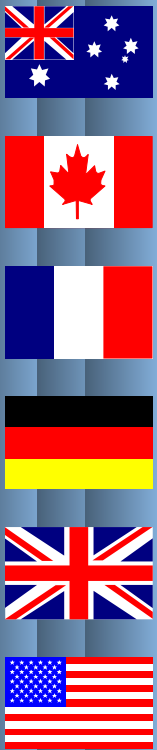CA **WS**

UK SPACE

WS **WS**
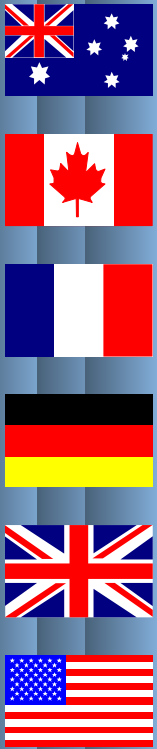
NEO

WS **Crypto**

Tier 2

Deployed Coalition

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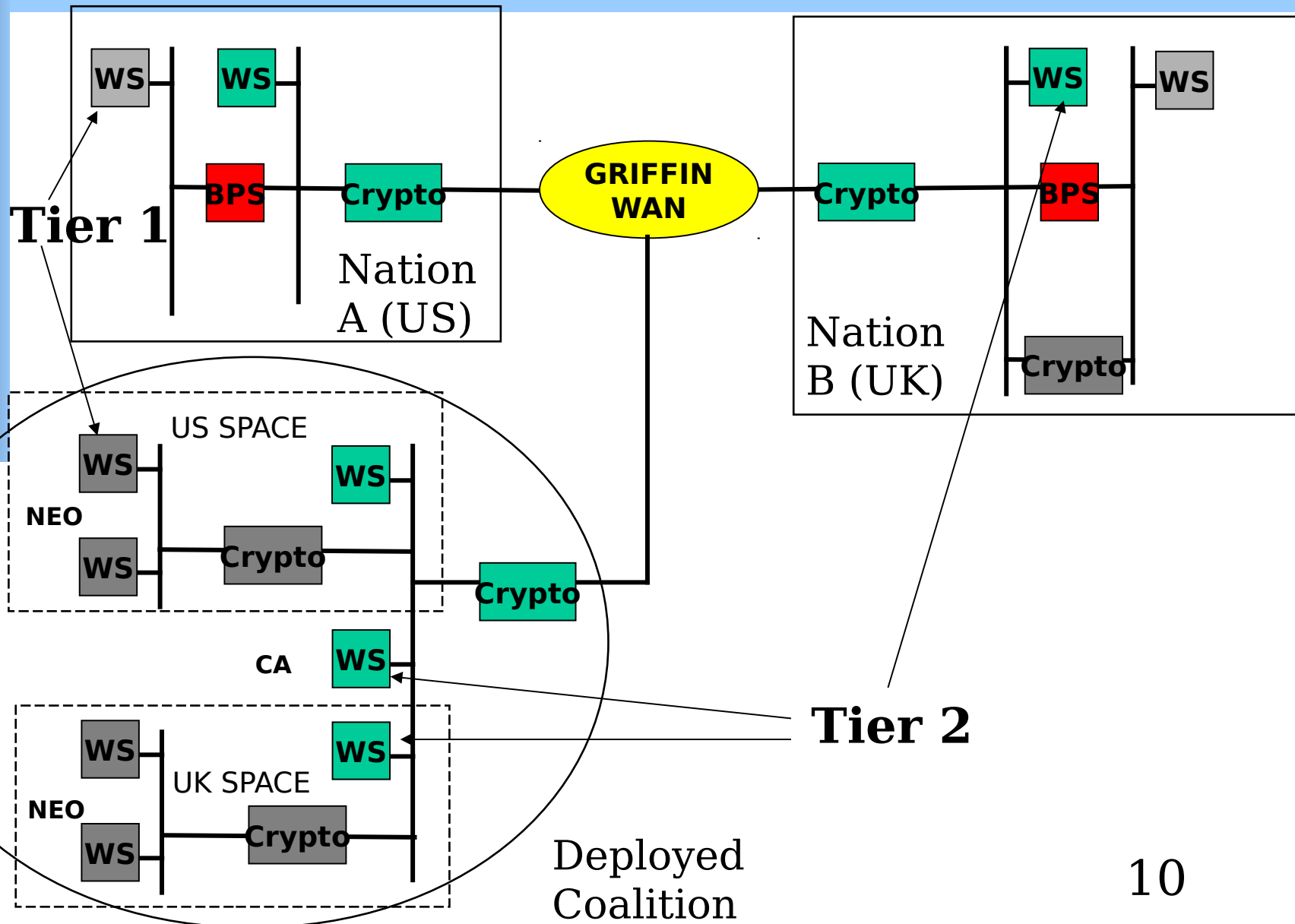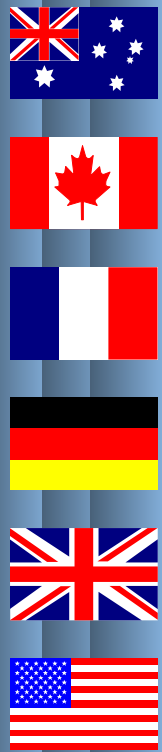
Strategy for Improved Coalition Information Exchange Environment (CIEE)

(Roadmap!)

CIEE Strategy (1)

- Requirement for Strategy agreed:

  ➢CCEB Principals at P33M
  ➢MIC Principals at 26 Jun 03 VTC

- Strategy to cover:

  ➢ Statement on initial MIC requirements
  ➢ Supporting Architecture and technologies
  ➢ Proposed priorities and costs
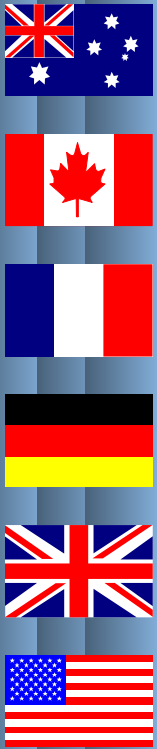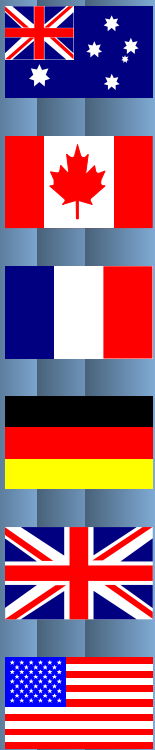 ➢ Timeframes and opportunities for network convergence

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CIEE Strategy (2)

- Paper agreed by CCEB Principals on 24 Nov 03

- Paper covered the following:

  - Look at initial MIC reqts set against political, operational and financial drivers
  - Architectures
  - Introduced a 2-Tier Model
  - Migration strategy and timelines
  - Next and future services
  - Resource sharing model
  - Way ahead

- Paper will be used as framework for future CIEE
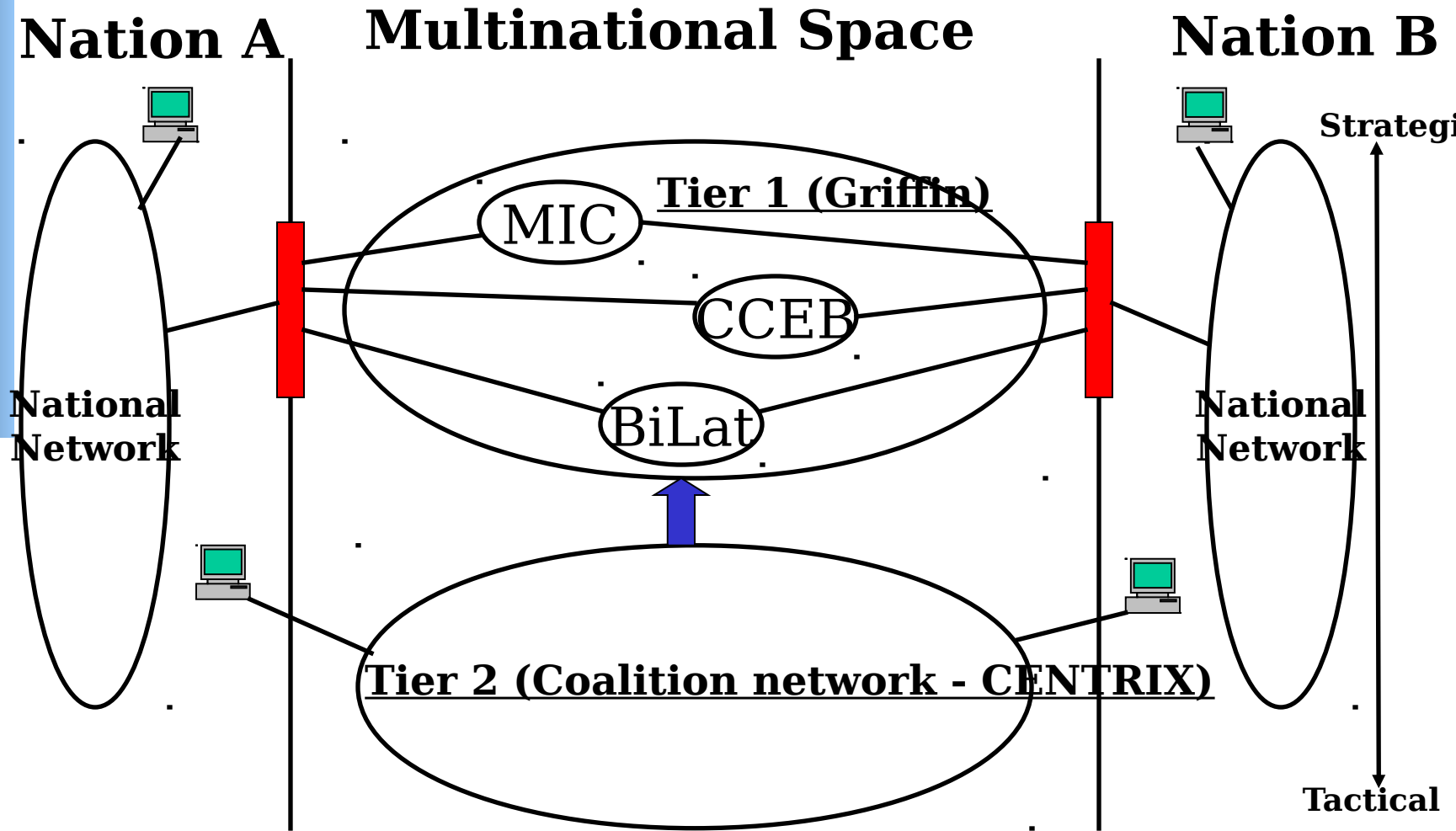
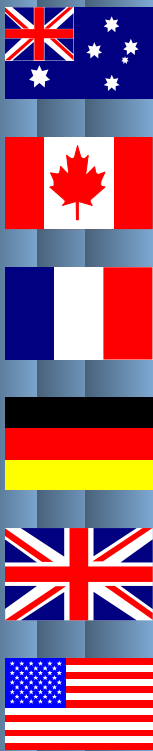 development

Two Tier Model - Fundamentals

- Three Distinct Information Domains:
  - National
  - Allied
  - Coalition
- Maintain principle of national C2 to national C2; one desk-top, multiple domains
- End state requires Boundary Protection Services (BPS) to protect National C2 systems
  - Current BPS do not allow for <u>all</u> information exchange capabilities
- Requires recognition of two info-sharing environments
  - Ones with BPS (Tier 1)
  - Ones without BPS (Tier 2)
- Tier 2 will always be a requirement because:
  - Coalitions stand up with less trusted, non-traditional partners
  - Only "Allied" partners will allow National C2 to National C2 linkages
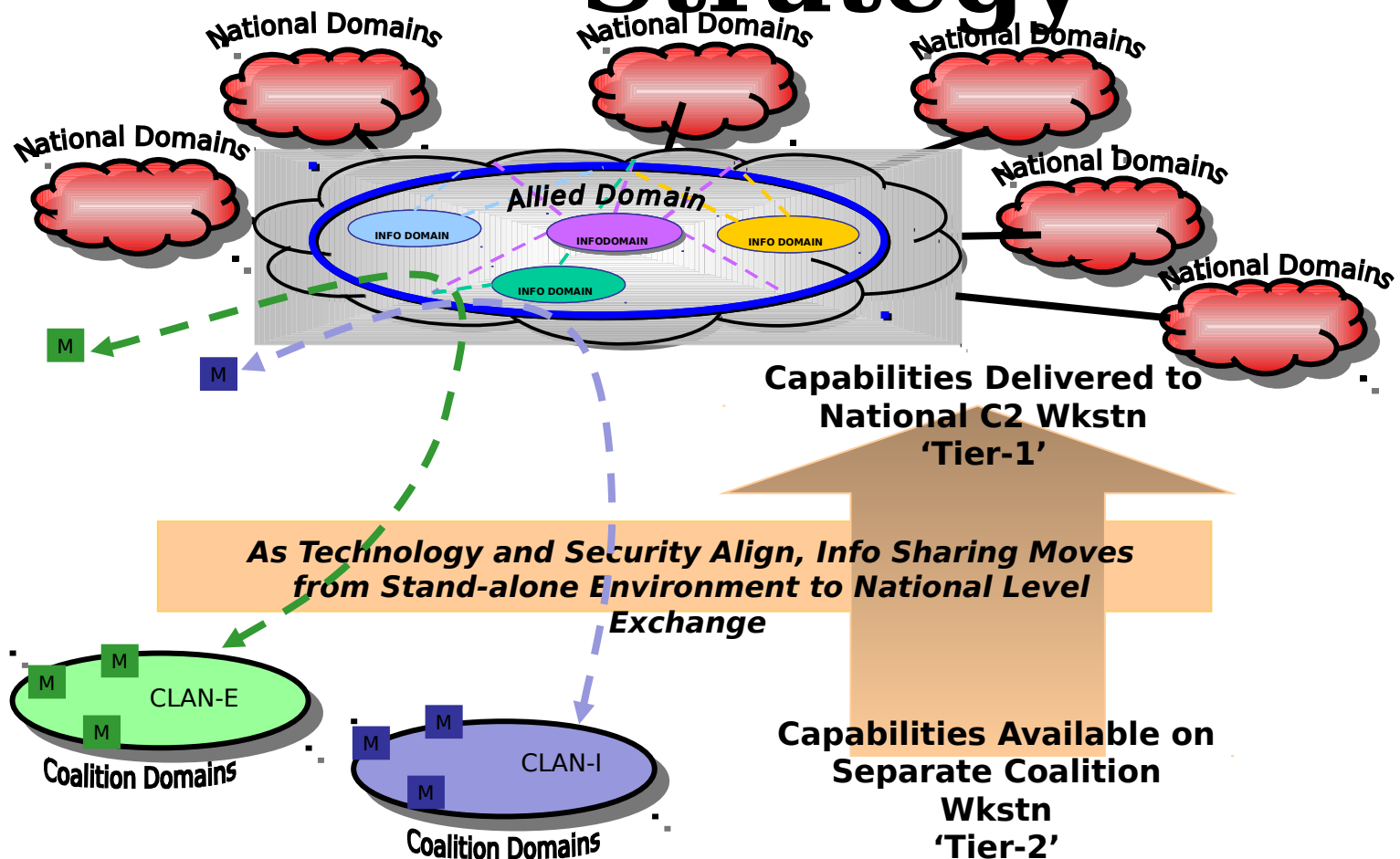
Two Tier Model

Nation A

Multinational Space

Nation B

Strategi[c]

Tier 1 (Griffin)

MIC

CCEB

BiLat

National Network

National Network

Tier 2 (Coalition network - CENTRIX)

Tactical

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CIEE Migration Strategy

National Domains

Allied Domain

INFO DOMAIN · INFODOMAIN · INFO DOMAIN · INFO DOMAIN

M

M

Capabilities Delivered to National C2 Wkstn 'Tier-1'

As Technology and Security Align, Info Sharing Moves from Stand-alone Environment to National Level Exchange

CLAN-E

Coalition Domains

CLAN-I

Coalition Domains

Capabilities Available on Separate Coalition Wkstn 'Tier-2'

- Emerging BPS solutions and associated security accreditation will
  govern the direction and timescales for achieving
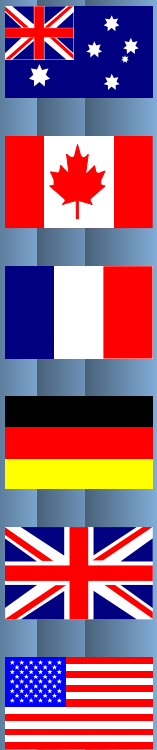
Migration Strategy

- Rigorous acceptance criteria before capabilities migrate to Tier-1
  - ➢ JWID, other experiments
  - ➢ Fully tested used CFBLNet
  - ➢ "Core Services"

- As Tier 1 capabilities become "richer"
  - ➢ Need for Tier-2 capabilities will be reduced
  - ➢ Network convergence
 - ➢ Elimination of duplicate network capabilities
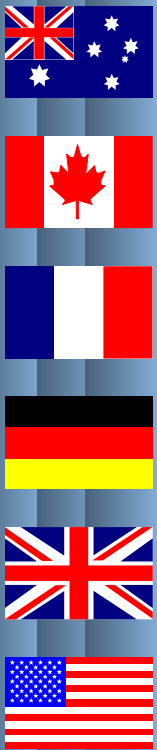
Migration Strategy

- **Next Services:** (Currently under development)

  - **Initial Web Capabilities**
  - **Enhanced Directory Services**
  - **CHAT**
  - **Common Relevant Operational Picture**
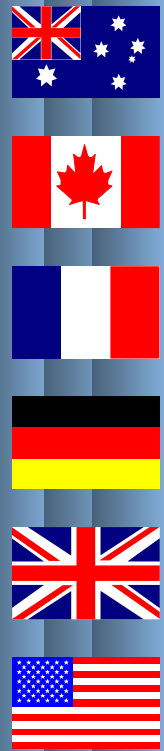 - **Military Messaging**
  - **Reachback**

- **Future Services:** (Not under Tier-1 development no BPS currently exists)

  - **VTC**
  - **Video/Audio**
  - **Whiteboarding**
  - **Advanced Web Services**
  - **Shared Applications**
  - **Virtual Workspace Applications**
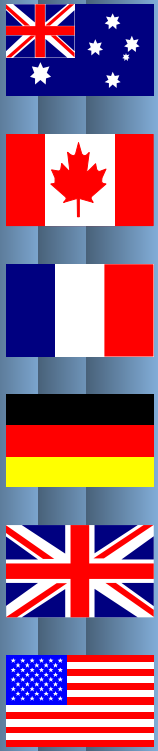 - **Scrolling Bulletins**

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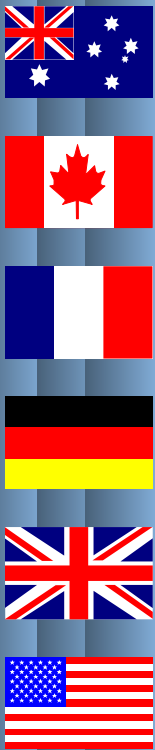
Migration Timeline
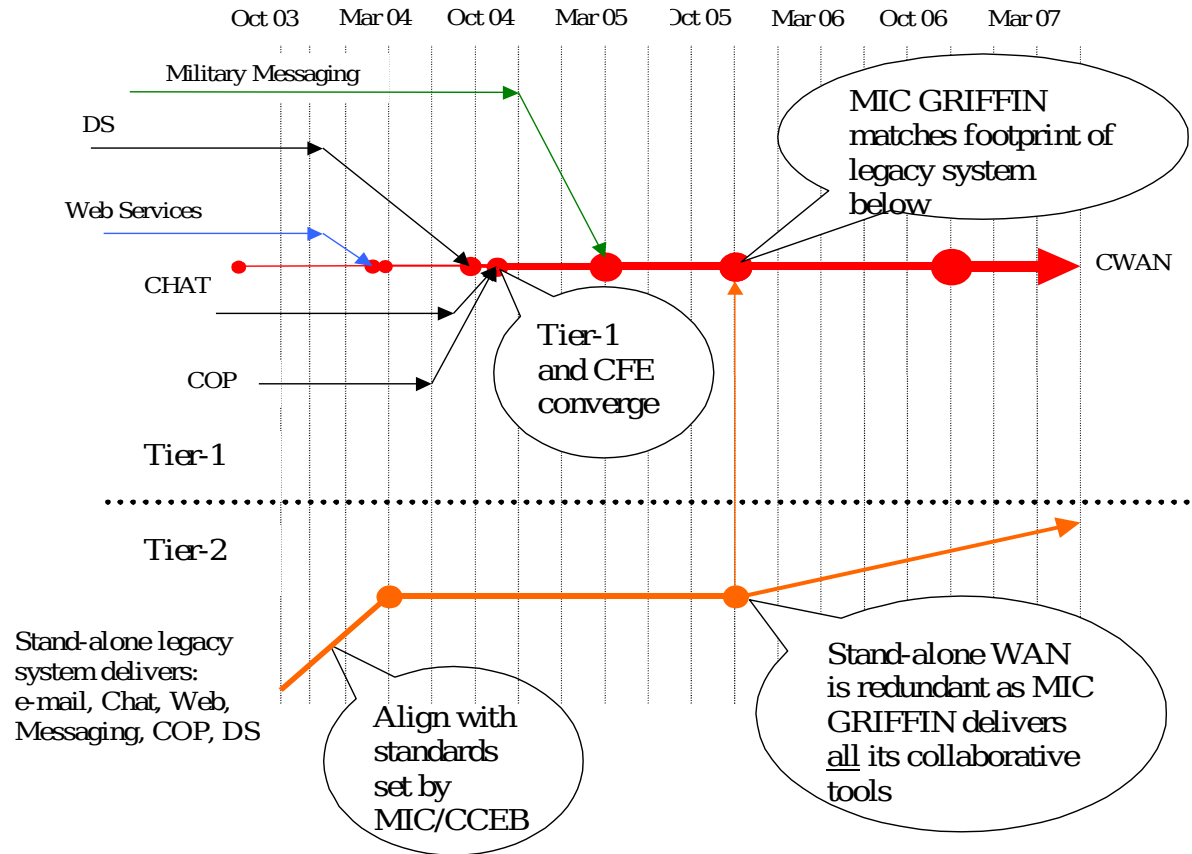
Conclusions and Way Ahead

- Ideal End state is direct exchange between National C2 systems

- CIEE Strategy requires adoption of the 2 Tier Model

- BPS solutions will govern direction and time scales for achieving the end state

- CCEB will lead development, consolidation and evolution of Tier 1 and 2

  ➢ Based on existing initiatives

- Nations will resource requirements

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Any Questions?